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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,191	10/31/2001	Roland M. Hochmuth	10017760-1	5760
7590 07/21/2005		EXAMINER		
HEWLETT-PACKARD COMPANY			TUNG, KEE M	
Intellectual Property Adiminstration P.O. Box 272400			ART UNIT	PAPER NUMBER
Fort Collins, CO 80527-2400			2671	

DATE MAILED: 07/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/004,191	HOCHMUTH ET	HOCHMUTH ET AL.			
Office Action Summary	Examiner	Art Unit				
	Kee M. Tung	2671				
The MAILING DATE of this commu	nication appears on the cover she	et with the correspondence a	address			
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMUI - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this con - If the period for reply specified above is less than thirty - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for rep Any reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no event, however, n munication. (30) days, a reply within the statutory minimum statutory period will apply and will expire SIX (6 ly will, by statute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered tim) MONTHS from the mailing date of this me ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) fi	led on 23 May 2005.					
2a)⊠ This action is FINAL .	2b) This action is non-final.	•				
	<u>.</u>					
Disposition of Claims						
4) Claim(s) 37-54 is/are pending in the 4a) Of the above claim(s) is/5) Claim(s) is/are allowed. 6) Claim(s) 37-54 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrict to the strict of the st	are withdrawn from consideration					
Application Papers						
9) The specification is objected to by the specification is objected to by the specific transfer of transfer of transfer of the specific transfer of t	e: a) accepted or b) objecte ection to the drawing(s) be held in at ng the correction is required if the dra	peyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 (CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a clair a) All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies	y documents have been received y documents have been received s of the priority documents have b ional Bureau (PCT Rule 17.2(a)).	. in Application No been received in this Nationa	al Stage •			
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date	(PTO-948) Pape	view Summary (PTO-413) r No(s)/Mail Date e of Informal Patent Application (P' -:	TO-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/23/05 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 37-39, 43-45 and 50-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Schmidt et al (The interactive performance of SLIM: a stateless, thin-client architecture, hereinafter "Schmidt").

Schmidt teaches a system for displaying image (page 33, Fig. 1), comprising a display device (such as, consoles) communicatively couplable to a network (interconnection fabric) and adapted to display the image, the display device comprising: a display network interface (page 34, section 2.1, Based-T Ethernet connection and page 35, section 2.3, 2nd paragraph, network interface) operable to receive graphics image data of the image from the network (page 35, section 2.3, 1st

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paragraph); a display frame buffer (page 35, section 2.2, 1st paragraph, local frame buffer) operable to store the received graphics image data; and a display refresh unit (page 35, section 2.2, 1st paragraph, refreshing the display from local frame buffer) operable to read the graphics image data from the display frame buffer and display the image. Therefore, at least claim 37 is anticipated by Schmidt.

As per claim 38, Schmidt teaches a display network interface port (inherently by the teachings of interconnection fabric of Fig. 1 in order to receive data over the network).

As per claim 39, Schmidt teaches the display network interface port is selected from the group consisting of an Ethernet port, an infiniband port, and a wireless network transceiver (page 34, section 2.1, Based-T Ethernet connection).

As per claim 43, Schmidt teaches the display device is adapted to display the image via at least one of an element selected from the group consisting of a CRT, LCD, TFT, LED and an organic polymer (is inherent to replace the display device of Fig. 1 to any one of the display device on the listed without required any skill).

As per claim 44, Schmidt teaches the display network interface of the display device adapted to receive the graphics image data from a remote source device via a plurality of packets (Page 35, section 2.2, UDP/IP transmission between servers and consoles).

Method claims 45, 50 and 51 are similar in scope to system claims 37, 43 and 44, and thus are rejected under similar rationale.

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System claim 52 is similar in scope to system claim 37, and thus is rejected under similar rationale.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 40-42, 46, 47, 49, 53 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt et al (The interactive performance of SLIM: a stateless, thin-client architecture, hereinafter "Schmidt") in view of Belt (5,974,471). The teachings of Schmidt are given in previous paragraph of this office action. However, Schmidt fails to explicitly teach or suggest the display device further comprises a display decompression unit. This is what Belt teaches. Belt teaches a computer system having distributed compression and decompression logic (codec 172) for compressed data movement (title and Fig. 1). The codec (172) in the device preferably compresses the data before transferring the data onto the bus. The receiving or destination device includes codec logic which receives the compressed data and decompresses the data before used or stored by the device (abstract). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of codec of Belt into the system of Schmidt in order to provide increased efficiency and reduced bus bandwidth requirements as taught by Belt

(abstract). Therefore, at least claims 40-42, 46, 47, 49, 53 and 54 would have been obvious.

6. Claim 48 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt et al (The interactive performance of SLIM: a stateless, thin-client architecture, hereinafter "Schmidt") and Belt (5,974,471) as applied to claims 45 and 46 above, and further in view of Torborg, Jr. et al (5,936,616 hereinafter "Torborg").

The teachings of combined system of Schmidt and Belt are given in previous paragraph of this Office action. However, the combined system fails to explicitly teach or suggest the compressed and decompressed graphics image data stored in different portions of the display frame buffer. This is what Torborg teaches. Torborg teaches a display controller that maintains a shared memory 142 comprising both a decompressed cache (VFB cache) used to store a decompressed portion of the frame buffer, and compressed memory used to store compressed subregions of the frame buffer (Fig. 6, col. 9, lines 39-43). The invention provides the advantages of reducing memory requirements in computer display architectures because the display image is stored in compressed form, and reducing the memory bandwidth requirement access the display image since it requires less bandwidth to transfer compressed data as opposed to decompressed data as taught by Torborg (col. 3, lines 14-22). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to have implement the console frame buffer as comprising both compressed portion and decompressed portion as taught by Torborg in order to conserve storage and reduce memory bandwidth. Therefore, at least claim 48 would have been obvious.

Response to Arguments

7. Applicant's arguments filed 5/23/05 have been fully considered but they are not persuasive.

There is no particular argument regarding claims 37-54.

Conclusion

8. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kee M. Tung whose telephone number is 571-272-7794.

The examiner can normally be reached on Tuesday - Friday from 5:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ulka Chauhan can be reached on 571-272-7782. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kee M Tung

Primary Examiner

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